

Formula

A Detailed Guide on **GetXXXFromDB** Method

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A c c o u n t | B i l l i n g | S t o c k | P O S | P a y r o l l



ISV/Software Solutions



Introduction

- Formula
 - Available in AutoCount Management Studio
 - AutoCount Management Studio → Tools → Formula
 - Generally 2 Events available:
 - Column Initialize – Triggers when the column is generated, usually when create NEW.
 - Column Changed – Triggers when the value of the column is changed.
 - SQL Management Studio is a great tools to assists you to look for Tables, Columns etc

****Important Note****

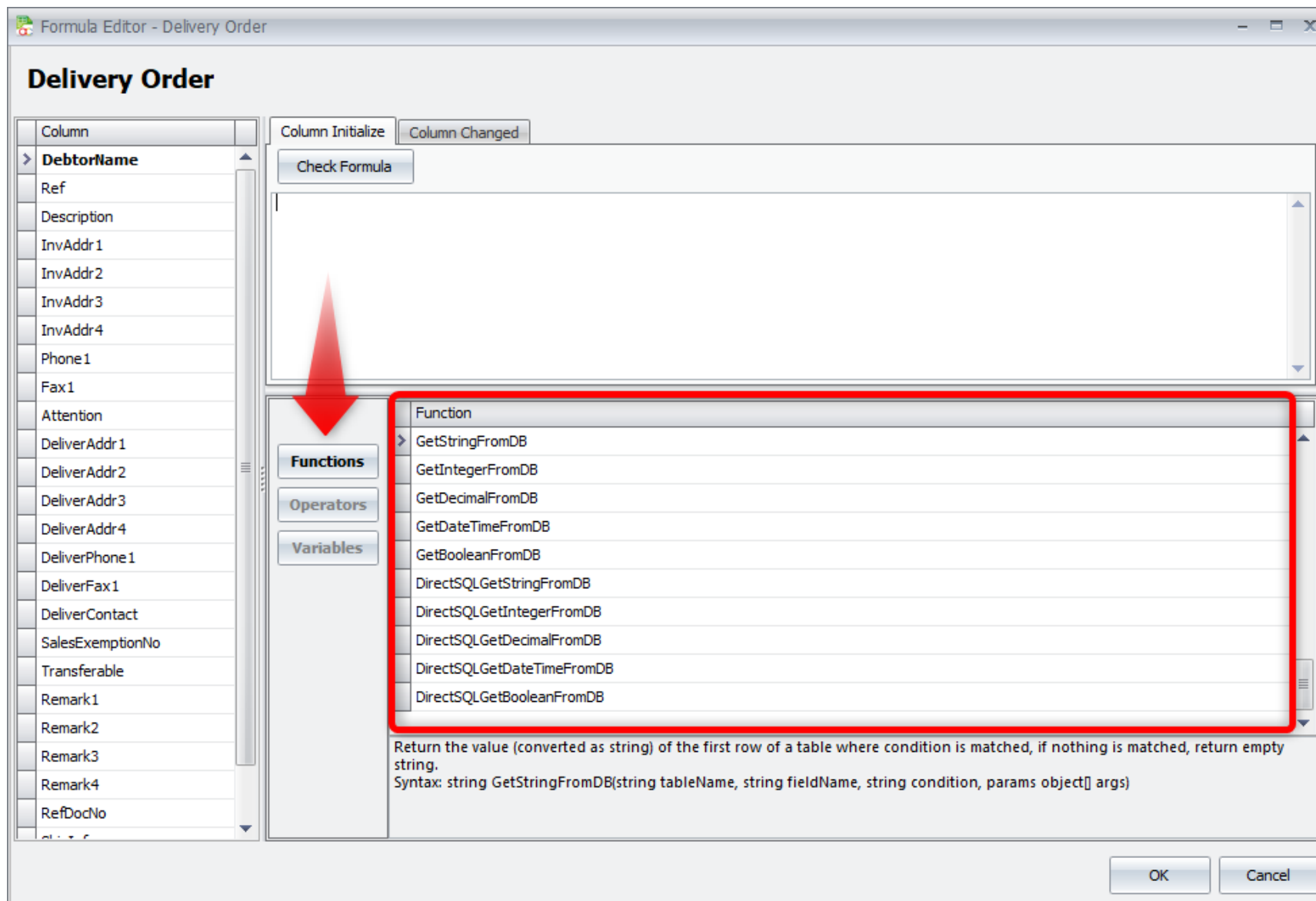
If you had used a certain UDF in your formula, please remember to remove that formula that uses the UDF first then only change the UDF Name. Else just don't change the UDF Name.

- There are 2 ways to set Formula to capture data from certain tables:
 - GetXXXFromDB
 - DirectSQLGetXXXFromDB
 - XXX here means either String (Text), Integer (Numbers), Decimal (Numbers with Decimals), DateTime (Date and Time) or Boolean (True or False)
 - Both methods can be found at the Formula Editor → Function
- Differences:
 - GetXXXFromDB: Just need to know Table, Columns and identify the unique condition to capture the data.
 - DirectSQLGetXXXFromDB: Need to have SQL Query knowledge. Support table joining for higher possibilities on the data captured.

****Important Note****

GetXXXFromDB is like GetSingleValue Tag Function, DirectSQLGetXXXFromDB is like ExecuteScalar Tag Function. (If you had experienced Report Designer Tag Function)

Introduction



Exercise 1

Exercise 1

- Create a few Shipping Method as below table:

Shipping Method	Description
A01	LORRY
A02	VAN
A03	FERRY

- When create Delivery Order, after selecting Ship Via column, user would like the Shipping Description to appear in the Delivery Order as well
- Using Formula function to capture the Shipping Description into Shipping Info column

Exercise 1

- What you need to do?
 - You will need to identify what table to access to capture Shipping Description
 - ShippingMethod Table
 - You will need to identify which is the column that stores Shipping Description
 - Description Column
 - You will need to identify which is the column that able to uniquely identifies each Shipping Method to capture the Shipping Description accordingly
 - ShippingMethod Column
 - You will need to identify if there is any needs to join tables to get the mentioned Shipping Description
 - No
- From the information above, you know you can capture by just using the GetStringFromDB method.

Exercise 1

- Login into AutoCount Management Studio:
 - Tools → Formula
 - Browse to Sales Category, you will see Delivery Order and Delivery Order Detail
 - Shipping Info is located at master, so choose Delivery Order
 - Click on Edit Formula
- The Formula Editor will appear:
 - You want to capture data into the Ship Info column, choose ShipInfo column from the field list
 - Logically, the description should always update when the Shipping Method change, this also means that you would need to perform the formula at Column Changed event
 - Click into the Column Changed and perform your formula there

Exercise 1

- Formula
 - Double click on the GetStringFromDB method to insert this method into the formula
 - The GetStringFromDB method will auto generate at your Formula Editor:
 - GetStringFromDB(string tableName, string fieldName, string condition, params object [] args)
- You will have to put the identified elements accordingly to the generated syntax
 - Table Name = ShippingMethod (From SQL Table)
 - Field Name = Description (From SQL Table)
 - Condition = ShippingMethod (From SQL Table)
 - Params = ShipVia (This is to follow the variable name provided in the Formula Editor)
 - For all the string type value, you will have to place it as “value”
 - GetStringFromDB(“ShippingMethod”, “Description”, “ShippingMethod=?”, ShipVia)

Exercise 1

Formula Editor - Delivery Order

Delivery Order

Column
Ref
Description
InvAddr1
InvAddr2
InvAddr3
InvAddr4
Phone1
Fax1
Attention
DeliverAddr1
DeliverAddr2
DeliverAddr3
DeliverAddr4
DeliverPhone1
DeliverFax1
DeliverContact
SalesExemptionNo
Transferable
Remark1
Remark2
Remark3
Remark4
RefDocNo
> ShipInfo

Column Initialize Column Changed

Check Formula

GetStringFromDB("ShippingMethod", "Description", "ShippingMethod=?", ShipVia)

Functions

Operators

Variables

Function

- > GetStringFromDB
- GetIntegerFromDB
- GetDecimalFromDB
- GetDateTimeFromDB
- GetBooleanFromDB
- DirectSQLGetStringFromDB
- DirectSQLGetIntegerFromDB
- DirectSQLGetDecimalFromDB
- DirectSQLGetDateTimeFromDB
- DirectSQLGetBooleanFromDB

Return the value (converted as string) of the first row of a table where condition is matched, if nothing is matched, return empty string.
Syntax: string GetStringFromDB(string tableName, string fieldName, string condition, params object[] args)

OK Cancel

Exercise 1

New Delivery Order - [Next Possible No: DO-000001] - EXERCISE - AutoCount Accounting (Ver: 2.0)

Home Edit

Save as Draft Save as Template Save

Group Total Discount Total Cost Item Search Show Instant Info Show Instant...

Copy from other Delivery Order Copy to a new Delivery Order Copy Delivery Order

Transfer From Quotation Transfer From Sales Order Check Transferred To Status Transfer Document

Debtor Name Address

D/O No <<New>> Date 18/12/2019 Credit Term Sales Agent Ship Via A03 Multi Pricing Branch Shipping Info FERRY

Item Code	Description	F...	Delivery Date	UOM	Qty	Unit Price	Discount	SubTotal	Tax Code	Tax Rate	Sales Ta...	Tax	Total (ex)	Total (inc)
Record 0 of 0														

Subtotal (ex) 0.00 Taxable Amount 0.00 Tax 0.00 Total 0.00

Proceed New D/O Save Save & Preview Save & Print Cancel

Delivery Order
When Select Ship Via, the Shipping Info will auto capture the Shipping Description as set in Shipping Method Maintenance

Exercise 2

Exercise 2

- Create a few Items with Multi UOM and maintain barcode for each Item each UOM
- The user would like to see the Item's Barcode in Invoice whenever they key an item
- Using Formula function to get the Barcode value and show at Invoice Detail
- You will need to create a UDF to show this Barcode value (I will not show how to create UDF in this guide)

Exercise 2

- What you need to do?
 - You will need to identify what table to access to capture Barcode
 - ItemUOM Table
 - You will need to identify which is the column that stores Barcode
 - Barcode Column
 - You will need to identify which is the column that able to identifies the differences to capture the Barcode accordingly
 - ItemCode and UOM
 - You will need to identify if there is any needs to join tables to get the mentioned Shipping Description
 - No
- From the information above, you know you can capture by just using the GetStringFromDB method.

Exercise 2

- Login into AutoCount Management Studio:
 - Tools → Formula
 - Browse to Sales Category, you will see Invoice and Invoice Detail
 - You are dealing with Item and UOM barcode, which should be shown line by line, choose Invoice Detail
 - Click on Edit Formula
- The Formula Editor will appear:
 - You want to capture data into the UDF_Barcode column, choose UDF_Barcode column from the field list
 - Logically, the UDF_Barcode should always update when the Item Code and UOM change, this also means that you would need to perform the formula at Column Changed event
 - Click into the Column Changed and perform your formula there

Exercise 2

- Formula
 - Double click on the GetStringFromDB method to insert this method into the formula
 - The GetStringFromDB method will auto generate at your Formula Editor:
 - GetStringFromDB(string tableName, string fieldName, string condition, params object [] args)
- You will have to put the identified elements accordingly to the generated syntax
 - Table Name = ItemUOM (From SQL Table)
 - Field Name = Barcode (From SQL Table)
 - Condition = ItemCode and UOM (From SQL Table)
 - Params = d_ItemCode, d_UOM (This is to follow the variable name provided in the Formula Editor)
 - For all the string type value, you will have to place it as “value”
 - Due to multiple condition, you can put AND or OR clause depends on your condition
 - For this scenario, you will need to check on both condition and pass, so will use AND
 - If you only need one condition to pass, may use OR
 - GetStringFromDB(“ItemUOM”, “Barcode”, “ItemCode=? AND UOM =?”, d_ItemCode, d_UOM)

Exercise 2

Formula Editor - Invoice Detail

Invoice Detail

Column
Numbering
Location
Description
YourPONo
YourPODate
PostToStockDate
UserUOM
Qty
FOCQty
UnitPrice
Discount
SubTotal
BonusPoint
Transferable
PrintOut
OurDONo
OurDODate
EstimatedDeliveryDate
DeliveryDate
TaxExportCountry
> UDF_Barcode

Column Initialize Column Changed

Check Formula

GetStringFromDB("ItemUOM", "Barcode", "ItemCode=? AND UOM=?", d_ItemCode, d_UOM)

Functions

Operators

Variables

Function
FormatWeight
FormatVolume
FormatMemberPoint
FormatDate
FormatBoolean
> GetStringFromDB
GetIntegerFromDB
GetDecimalFromDB

Return the value (converted as string) of the first row of a table where condition is matched, if nothing is matched, return empty string.
Syntax: string GetStringFromDB(string tableName, string fieldName, string condition, params object[] args)

OK Cancel

Exercise 2

New Invoice - [Next Possible No: I-000001] - EXERCISE - AutoCount Accounting (Ver: 2.0)

Home Edit


Save as Draft Save as Template Save

Editing

Set Tax Date Group Total Discount Change Unit Price Item Search Show Instant Info Copy from other Invoice Copy to a new Invoice Copy Invoice

Transfer From Quotation Transfer From Sales Order Transfer From Delivery Order Transfer By Value From Sales Order Check Transferred To Status

Transfer Document

Debtor 

Name

Address

Invoice No <<New>> Date 18/12/2019 Multi Pricing

Branch Credit Term

Sales Agent

Ship Via Shipping Info

Item Code	Description	Furt...	UOM	Barcode	Qty	Unit Price	Discount	Total	Tax	Total (ex)	Total (inc)
00001	TYPE C CABLE	...	UNIT	10011	1			0.00	0.00	0.00	0.00
00001	TYPE C CABLE	...	PACK	10016	1			0.00	0.00	0.00	0.00
00002	USB CABLE	...	UNIT	10021	1			0.00	0.00	0.00	0.00
> 00002	USB CABLE	...	PACK	10026	1			0.00	0.00	0.00	0.00

Barcode auto capture based on the selected Item and UOM

4 0.00 0.00 0.00 0.00

Record 4 of 4

Subtotal (ex) 0.00

Inclusive? Taxable Amount 0.00 Tax 0.00

Total 0.00

Proceed New Invoice

Save Save & Preview Save & Print Cancel

The End